PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P12514WO				FOR FURTHER ACTION See Form PCT/IPEA/416		See Form PCT/IPEA/416			
International application No. PCT/EP2004/052581			2581	International filing date 20.10.2004		Priority date (day/month/year) 31.10.2003			
						31.10.2003			
International Patent Classification (IPC) or national classification and IPC H04L12/56									
Applicant SIEMENS AKTIENGESELLSCHAFT									
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2.	This RE	PORT consis	ts of a total of	4	sheets, including	g this cover sheet.			
3.	This rep	ort is also acc	ompanied by A	NNEXES, comprising:					
	a. 🛚	(sent to th	e applicant and	to the International Bure	au) a total of 10	sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
						, containing a sequence listing and/or tables			
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This rep	ort contains i	ndications relati	ng to the following items	:				
		Box No. I	Basis of the	report					
		Box No. II	Priority						
		Box No. III	Non-establi	shment of opinion with re	egard to novelty, invent	ive step and industrial applicability			
		Box No. IV	Lack of uni	ty of invention	y of invention				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
		Box No. VII	Certain defe	ects in the international ap	pplication				
		Box No. VIII	Certain obs	ervations on the internation	onal application				
Date of submission of the demand			D	ate of completion of the	is report				
Name and mailing address of the IPEA/EP				A	uthorized officer				
Facsimile No.				Telephone No.					

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/EP2004/052581

Box	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internatio cated under this item.	nal application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original langua which is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4	oses of:	·
		international preliminary examination (Rule 55.2 and/	(or 55.3)	
2.	rece	h regard to the elements of the international application, this viving Office in response to an invitation under Article 14 ar report): the international application as originally filed/furnished the description:		
		pages 1,2,4,5,7-10,12-21		as originally filed/furnished
		pages* _3,3a,6,11,11a	received by this Authority on	15.03.2005 with letter of 14.03.2005
		pages*		
	\boxtimes	the claims:		
				as originally filed/furnished
		nos.*		
		nos.* 1-10		15.03.2005 with letter
		nos.*		
	\square		. received by this radiotity on	
		the drawings:		
		sheets 1/2,2/2		as originally filed/furnished
		sheets*		
	\Box	sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence L	isting.
3.	\boxtimes	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos11		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as file.		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."	

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Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)		1-10	YES
		Claims		NO
Inventive step (IS)		Claims	1-10	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Claim 1 relates to a process for determining a route between a first radio station and a second radio station (mobile station) via other radio stations, in which process a radio device (base station) which knows the neighbourhood relationships between the radio stations determines some of the radio stations in the route and sends information on these radio stations to one or more radio stations among these radio stations. After receiving this information, the radio stations determine the remaining radio stations in the route.

This type of process, in which the radio device determines only parts of the route, rather than the entire route between the first and the second radio stations, and in which the radio stations themselves determine the remaining route, cannot be found in the available documents, nor is it suggested by these documents, either alone or in combination.

In the known document **D1**, by YU-CHING HSU et alia, "Base-centric routing protocol for multihop cellular networks", which represents the closest prior art, the route is either entirely determined by the radio device, in

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

accordance with a centralised route determination process, or is entirely determined by the radio stations, in accordance with a decentralised route determination process. D1 does not suggest mixing the centralised and the decentralised route determination processes.

The subject matter of claim 1 should therefore be considered novel and inventive (PCT Article 33(2) and 33(3)). The subject matter of claim 1 is also industrially applicable.

The above reasoned statement likewise applies to independent claim 10, which defines a radio device specially designed for carrying out the process as per claim 1. Claim 10 thus likewise meets all the requirements of PCT Article 33.

Dependent claims 2-9 contain advantageous developments of the subject matter of claim 1 and thus likewise meet all the requirements for novelty, inventive step and industrial applicability.